

WHAT IS CLAIMED IS:

1           1.    A communication entity for facilitating compressed  
2   message communication, said communication entity comprising:  
3           a   context   table   containing   context   information  
4   associated with at least one communication message;  
5           a   compressor, in communication with said context table,  
6   said compressor using said context information to compress  
7   at least one transmitted communication message; and  
8           a   decompressor, in communication with said context  
9   table, said decompressor using said context information to  
10   decompress at least one received communication message.

1           2.    The communication entity of claim 1, wherein said  
2   context information comprises at least a portion of at least  
3   one information field of said at least one communication  
4   message.

1           3.    The communication entity of claim 2, wherein said  
2   at least a portion of said at least one information field  
3   comprises at least one header field.

1           4.    The communication entity of claim 3, wherein said  
2    at least one header field comprises at least one Internet  
3    Protocol header field.

1           5.    The communication entity of claim 1, wherein said  
2    context information comprises a dictionary.

1           6.    The communication entity of claim 1, wherein said  
2    at least one transmitted communication message is transmitted  
3    using a first communication channel and said at least one  
4    received communication message is received over a second  
5    communication channel, said first communication channel and  
6    said second communication channel comprising a channel pair.

1           7.    The communication entity of claim 1, wherein said  
2    communication entity comprises a mobile terminal.

1           8.    The communication entity of claim 1, wherein said  
2    communication entity comprises a base station.

1           9. The communication entity of claim 1, wherein said  
2 at least one transmitted communication message is compressed  
3 using a first context, and said at least one received  
4 communication message is decompressed using a second context.

1           10. The communication entity of claim 9, wherein said  
2 first context is substantially the same as said second  
3 context.

1           11. A method for facilitating compressed message  
2 communication, said method comprising the steps of:  
3           maintaining a context table containing context  
4 information associated with at least one communication  
5 message;  
6           compressing at least one transmitted communication  
7 message using said context information; and  
8           decompressing at least one received communication  
9 message using said context information.

1           12. The method of claim 11, wherein said context  
2           information comprises at least one information field of said  
3           at least one communication message.

1           13. The method of claim 12, wherein said at least one  
2           information field comprises at least one header field.

1           14. The method of claim 13, wherein said at least one  
2           header field comprises at least one Internet Protocol header  
3           field.

1           15. The method of claim 11, wherein said context  
2           information comprises a dictionary.

1           16. A method for facilitating compressed message  
2   communication, said method comprising the steps of:  
3           compressing a first communication message having first  
4   context information to produce a first compressed message;  
5           storing said first context information in a context  
6   table;  
7           transmitting said first compressed message over a first  
8   communication channel;  
9           receiving a second compressed message over a second  
10   communication channel;  
11          decompressing said second compressed message to produce  
12   a second communication message having second context  
13   information; and  
14          storing said second context information in said context  
15   table.

1           17. The method of claim 16, wherein said first  
2   communication channel and said second communication channel  
3   comprising a channel pair.

1           18. The method of claim 16, wherein at least one of  
2       said first context information and said second context  
3       information comprises at least one information field of an  
4       Internet Protocol.

1           19. The method of claim 18, wherein said at least one  
2       information field comprises at least one header field.

1           20. The method of claim 16, wherein at least one of  
2       said first context information and said second context  
3       information forms an entry in a dictionary.

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1           21. A method for facilitating compressed message  
2     communication between a first communication entity and a  
3     second communication entity, said method comprising:  
4           compressing, at said first entity, at least a first  
5     communication message using a first context table;  
6           compressing, at said first entity, at least a second  
7     communication message using said first context table;  
8           transmitting to said second entity, by said first  
9     entity, said at least a first communication message using a  
10    first communication session, said first communication session  
11    having associated first context information;  
12           transmitting to said second entity, by said first  
13    entity, said at least a second communication message using  
14    a second communication session, said second communication  
15    session having associated second context information, said  
16    first context information substantially equal to said second  
17    context information.

1        22. The method of claim 21, said method further  
2        comprising:  
3            receiving, at said second entity, said at least a first  
4        communication message using said first communication session;  
5            receiving, at said second entity, said at least a second  
6        communication message using said second communication  
7        session;  
8            decompressing, at said second entity, said at least a  
9        first communication message using a second context table;  
10          decompressing, at said second entity, said at least a  
11        second communication message using said second context table.

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